

## **TOUCH PANEL SYSTEM AND METHOD FOR DISTINGUISHING MULTIPLE TOUCH INPUTS**

### **Abstract of the Disclosure**

5           Touch panel systems and methods are disclosed that can distinguish  
temporally overlapping touch inputs from single touch inputs so that valid touch  
position coordinates can be determined. Touch panel systems and methods of the  
present invention can distinguish overlapping touches by comparing signal  
magnitudes to specified thresholds, by comparing the rates of change of signal  
10   magnitudes or measured positions to determined parameters, by locating the  
proximity a calculated location to icons or other such active areas, and the like.  
Because touch panel systems and methods of the present invention can  
discriminate single touches from double touches, they can be used in multiple  
user applications such as multiplayer games as well as in applications that may be  
15   subject to rapidly successive or overlapping touch inputs.